



TABLE 8.2-1.-AIR POLLUTION CONTROL SYSTEMS (APCS) AND THEIR CONSERVATIVELY ESTIMATED EFFICIENCIES FOR REMOVING HYDROGEN CHLORIDE (HCL) AND PARTICULATE MATTER (PM) (%)

| APCD | HCl | | |
|--------|--------------|------------|----|
| | Cement kilns | Other BIFs | PM |
| WS | 97 | 97 | 40 |
| VS-20 | 97 | 97 | 80 |
| VS-60 | 98 | 98 | 87 |
| ESP-1 | 83 | 0 | 90 |
| ESP-2 | 83 | 0 | 92 |
| ESP-4 | 83 | 0 | 95 |
| WESP | 83 | 70 | 90 |
| FF | 83 | 0 | 90 |
| SD/FF | 98 | 98 | 97 |
| DS/FF | 98 | 98 | 95 |
| WS/IWS | 99 | 99 | 95 |
| IWS | 99 | 99 | 90 |

WS= Wet Scrubber including: Sieve Tray Tower, Packed Tower, Bubble Cap Tower
 PS= Proprietary Wet Scrubber Design (A number of proprietary wet scrubbers have come on the market in recent years that are highly efficient on both particulates and corrosive gases. Two such units are offered by Calvert Environmental Equipment Co. and by Hydro-Sonic Systems, Inc.).
 VS-20= Venturi Scrubber, ca. 20-30 in W.G. Δp
 VS-60= Venturi Scrubber, ca. >60 in W.G. Δp
 ESP-1= Electrostatic Precipitator; 1 stage
 ESP-2= Electrostatic Precipitator; 2 stage
 ESP-4= Electrostatic Precipitator; 4 stage
 IWS= Ionizing Wet Scrubber
 DS= Dry Scrubber
 FF= Fabric Filter (Baghouse)
 SD= Spray Dryer (Wet/Dry Scrubber)